

Title (en)
DISTRIBUTOR MADE OF CMC, WITH LOAD RELIEF BY A SEALED CLAMP

Title (de)
AUS CMC HERGESTELLTER VERTEILER MIT ENTLASTUNG DURCH EINE ABGEDICHTETE KLEMME

Title (fr)
DISTRIBUTEUR EN CMC AVEC REPRISE D'EFFORT PAR UNE PINCE ÉTANCHE

Publication
EP 3781792 A2 20210224 (FR)

Application
EP 19742423 A 20190415

Priority
• FR 1853352 A 20180417
• FR 2019050880 W 20190415

Abstract (en)
[origin: WO2019202249A2] A turbine (1) of a turbomachine comprises a case (4) and a distributor stage (2) having an outer metallic collar (9) secured to the case (4), an inner metallic collar (5), and a plurality of segments (20) of a ring which are made of a ceramic matrix composite and each have an inner platform (24), an outer platform (26) and at least one turbine blade airfoil (28) which extends between the outer platform (26) and the inner platform (24) and is rigidly connected to said platforms. The inner platform (24) of every segment (20) has first and second tabs (243, 244) protruding radially inward from respective upstream (2421) and downstream (2422) ends of the inner platform (24), the inner collar (5) has a shoulder (53) which protrudes radially outward and which upstream bears against the first tab (243), and a clamp downstream of the shoulder (53) has two jaws (54, 56) extending radially outwards and held under stress against each other and against the tab (244).

IPC 8 full level
F01D 5/28 (2006.01); **F01D 9/04** (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP US)
F01D 5/18 (2013.01 - US); **F01D 5/282** (2013.01 - US); **F01D 5/284** (2013.01 - EP); **F01D 9/041** (2013.01 - US); **F01D 9/042** (2013.01 - EP US); **F01D 25/246** (2013.01 - EP); **F05D 2240/128** (2013.01 - US); **F05D 2260/31** (2013.01 - US); **F05D 2300/6033** (2013.01 - US); **Y02T 50/60** (2013.01 - EP)

Citation (search report)
See references of WO 2019202249A2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
FR 3080145 A1 20191018; FR 3080145 B1 20200501; CN 111989463 A 20201124; CN 111989463 B 20240402; EP 3781792 A2 20210224; EP 3781792 B1 20231122; US 11480064 B2 20221025; US 2021108525 A1 20210415; WO 2019202249 A2 20191024; WO 2019202249 A3 20191128

DOCDB simple family (application)
FR 1853352 A 20180417; CN 201980026399 A 20190415; EP 19742423 A 20190415; FR 2019050880 W 20190415; US 201917047989 A 20190415